

Table 1: RBR Class Changes  
 RTM Baseline Used: 4/18/97  
 CCR\_97-0728/A

RBR_id	req_key	Rel	Req_Category	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	CCR	text	interpretation text	clarification
NI-0010#B	6354	<a href="#">B0</a>	mission critical	FOS   SDPS   CSMS	interface	test	un-verified	test	un-verified		ECS shall have the capability to communicate with the TDRSS via the EDOS/EBnet interface.		
NI-0020#B	6355	<a href="#">B0</a>	mission critical	FOS   CSMS	interface	test	un-verified	test	un-verified		ECS shall have the capability to communicate with the TDRSS for transmitting commands to EOS spacecraft (via the EDOS/EBnet interface). Mission-specific requirements for supporting EOS spacecraft command operations will be documented in the EOS mission-level Detailed Mission Requirements documents.		
NI-0030#B	7146	<a href="#">B0</a>	mission critical	FOS   SDPS   CSMS	interface	test	un-verified	test	un-verified	96-0956A	ECS shall have the capability to interface with the TDRSS for obtaining return link (telemetry) data from EOS spacecraft (via the EDOS/EBnet interface). Mission-specific requirements for supporting EOS spacecraft telemetry		

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											operations will be documented in the EOS mission Detailed Mission Requirements documents.		
NI-0110#B	9192	<a href="#">B0</a>	mission essential	FOS   CSMS	interface	test	un-verified	test	un-verified	97-0416	ECS shall have the capability to communicate with the NCC via the EBnet interface.		
NI-0210#B	6383	<a href="#">B0</a>	mission critical	FOS   CSMS	interface	test	un-verified	test	un-verified		ECS shall have the capability to communicate with the GN, DSN, and WOTS via the EDOS/EBnet interface.		
NI-0220#B	6384	<a href="#">B0</a>	mission critical	FOS   CSMS	interface	test	un-verified	test	un-verified		ECS shall have the capability to communicate with the GN, DSN, and WOTS for transmitting commands to EOS spacecraft (via the EDOS/EBnet interface). Mission-specific requirements for supporting EOS spacecraft command operations will be documented in the EOS mission-level Detailed Mission Requirements documents.		
NI-0230#B	8265	<a href="#">B0</a>	mission critical	FOS   CSMS	interface	demo	un-verified	demo	un-verified	96-1343A	ECS shall have the capability to interface	Ecom is considered to be EBnet.	

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											with the GN, DSN, and WOTS for obtaining return link (telemetry) data from EOS spacecraft (via the EDOS/Ecom interface). Mission-specific requirements for supporting EOS spacecraft telemetry operations will be documented in the EOS mission-level Detailed Mission Requirements documents.		
NI-0310#B	9203	<a href="#">B0</a>	mission essential	FOS   CSMS	interface	test	un-verified	test	un-verified	97-0416	ECS shall have the capability to communicate with the FDF via the EBnet interface		
NI-0360#B	9208	<a href="#">B0</a>	<a href="#">N/A procedural mission critical</a>	<a href="#">N/A procedural SDPS</a>	<a href="#">procedural   operation al interface</a>	<a href="#">not verified by ECStest</a>	<a href="#">N/A procedural un-verified</a>	<a href="#">not verified by ECStest</a>	<a href="#">N/A procedural un-verified</a>	97-0416	ECS shall have the capability to send a notification of orbit or attitude quality checks and request updated (refined/repared) orbit or attitude data from the FDF when necessary. Mission-specific requirements for FDF support of EOS missions will be documented in the EOS mission-level Detailed Mission Requirements documents	<a href="#">Manual interface between ECS and FDF to pass information and request updated info only when necessary.</a>	IRD needs to be modified to remove reference to "attitude". CCR 505-01-41-100, CH21 only addresses "orbit quality checks". IRD needs to be modified ( <a href="#">CCR 97-0559 makes necessary change</a> )

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											and FDF-developed ICDs.		
NI-0365#B	9209	<a href="#">B0</a>	mission critical	SDPS	interface	test	un-verified	test	un-verified	97-0416	ECS shall have the capability to receive from FDF a notification of orbit or attitude quality checks. Mission-specific requirements for FDF support of EOS missions will be documented in the EOS mission-level Detailed Mission Requirements documents and FDF-developed ICDs.		IRD needs to be changed to be consistent with CCR 505-01-41-100, CH21, i.e. reworded as follows: "ECS shall have the capability to receive from FDF orbit and attitude quality checking software and parameters. Mission-specific requirements for FDF support of EOS missions will be documented in the EOS mission-level Detailed Mission Requirements documents and FDF-developed ICDs. ( <a href="#">CCR 97-</a>

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													<a href="#">0559 makes necessary change)</a>
NI-0370# B	7985	<a href="#">B0</a>	mission critical	SDPS	interface	test	un-verified	test	un-verified	96-0620C	ECS shall have the capability to receive from FDF, at a minimum the following: a. <del>Repaired</del> Orbit data and associated metadata b. <del>Repaired</del> Attitude data and associated metadata Mission-specific requirements for FDF support of EOS missions will be documented in the EOS mission-level Detailed Mission Requirements documents and FDF-developed ICDs.		
NI-0400# B	9210	<a href="#">B0</a>	mission critical	CSMS	interface	test	un-verified	test	un-verified	97-0164A	ECS shall have the capability to interface with NASA Data Processing Facilities (including the GSFC SDPF) via EBnet to receive the following data (at a minimum): a. Science data b. Ancillary data c. Orbit data		<a href="#">This requirement has been deleted from the IRD in CCR 97-0559.</a>
NI-0440# B	9211	<a href="#">B0</a>	mission critical	CSMS	interface	test	un-verified	test	un-verified	97-0416	ECS shall have the capability to receive		NOLAN no longer applies to

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											information regarding fault status and estimated time to repair or resolve NOLAN faults that may affect the quality of NOLAN services between ECS and its users.		ECS. The NOLAN functions are now being performed via Ebnet.  <a href="#">This requirement has been deleted from the IRD in CCR 97-0559.</a>
NI-0450#B	9212	<a href="#">B0</a>	mission critical	CSMS	interface	test	un-verified	test	un-verified	97-0416	ECS shall have the capability to receive periodic summary information about faults that may have affected the quality of NOLAN services between ECS and its users.		NOLAN no longer applies to ECS. The NOLAN functions are now being performed via Ebnet.  <a href="#">This requirement has been deleted from the IRD in CCR 97-0559.</a>
NI-0460#B	9214	<a href="#">B0</a>	mission critical	CSMS	interface	test	un-verified	test	un-verified	97-0164A	ECS shall have the capability to receive periodic information regarding EBnet network		<a href="#">This requirement has been deleted from the IRD in</a>

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											performance and link utilization.		<a href="#">CCR 97-0559.</a>
NI-0470#B	9215	<a href="#">B0</a>	mission critical	CSMS	interface	test	un-verified	test	un-verified	97-0416	ECS shall have the capability to receive notifications of security breaches at NOLAN sites or within the NOLAN network that could potentially affect ECS sites.		NOLAN no longer applies to ECS. The NOLAN functions are now being performed via Ebnet.  <a href="#">This requirement has been deleted from the IRD in CCR 97-0559.</a>
NI-0480#B	9216	<a href="#">B0</a>	mission critical	CSMS	interface	test	un-verified	test	un-verified	97-0416	ECS shall have the capability to send to NOLAN notifications of security breaches at ECS facilities that could affect NOLAN and other EOSDIS sites.		NOLAN no longer applies to ECS. The NOLAN functions are now being performed via Ebnet.  <a href="#">This requirement has been deleted from the IRD in CCR 97-0559.</a>

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NI-1000#B	9217	<a href="#">B0</a>	mission essential	FOS   SDPS   CSMS	interface	analysis	un-verified	analysis	un-verified	97-0417A	ECS functions shall have an operational availability (computed as defined in the Functional and Performance Requirements Specification for the ECS) of 0.96 at a minimum and a Mean Down Time (MDT) of four (4) hours or less, unless otherwise specified.		
NI-1060#B	9220	<a href="#">B</a>	mission critical	FOS   CSMS	interface	test	un-verified	test	un-verified	97-0164A	The ECS shall contribute a loop delay of not greater than 2.5 seconds of the total system delay of five (5) seconds for emergency real time commands, not including the time needed for command execution. The loop delay is measured from the originator to the spacecraft/instrument and back and only applies when a TDRSS link is available for contact to the spacecraft.		